Name: _____ Score: _____

Composition of Three Functions

ES1

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = x-2 ; g(x) = x+1; h(x)=x-3.

a) x-2

b) x-4

c) -x+2

d) -x+8

2) f(x) = 2x-4 ; g(x) = x+7; h(x)=x-5.

a) 2x+5

b) 2x+10

c) 2x

d) x+2

3) f(x) = 3x-7 ; g(x) = 1-4x; h(x)=6x+9.

a) -12x+29

b) 12x-29

c) 72x+112

d) -72x-112

4) f(x) = x-4; g(x) =3x+5; h(x)=5-x.

a) 4-3x

b) -3x+12

c) -3x-4

d) 16-3x

5) f(x) = 2x+1; g(x) = 7x+4; h(x)=9x-3.

a) 126x+96

b) 126x-33

c) 126x+78

d) 126x-96

6) f(x) = 7x+5 ; g(x) = 4x-1; h(x)=x+5.

a) 28x

b) 28x+24

c) 28x+138

d) 28x-24

7) f(x) = x+3 ; g(x) = 5x-9; h(x)=x-8.

a) 5x-46

b) 5x-14

c) -5x-14

d) 5x-49

8) f(x) = 12x+3 ; g(x) = x-4; h(x)=3x.

a) 36x-3

b) 36x-45

c) 36x-135

d) -36x-42

9) f(x) = x-6 ; g(x) = x-3; h(x)=x-9.

a) x-6

b) x-12

c) -x-18

d) x-18

10) f(x) = 7x-4 ; g(x) = 3x+8; h(x)=x+2

a) 21x-2

b) 21x+30

c) 21x+94

d) 21x+2

Name: _____ Score: _____

Answer key

Composition of Three Functions

ES1

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = x-2 ; g(x) = x+1; h(x)=x-3.

a) x-2

b) x-4

c) -x+2

d) -x+8

2) f(x) = 2x-4 ; g(x) = x+7; h(x)=x-5.

a) 2x+5

b) 2x+10

c) 2x

d) x+2

3) f(x) = 3x-7 ; g(x) = 1-4x; h(x)=6x+9.

a) -12x+29

b) 12x-29

c) 72x+112

d) -72x-112

4) f(x) = x-4; g(x) =3x+5; h(x)=5-x.

a) 4-3x

b) -3x+12

c) -3x-4

d) 16-3x

5) f(x) = 2x+1; g(x) = 7x+4; h(x)=9x-3.

a) 126x+96

b) 126x-33

c) 126x+78

d) 126x-96

6) f(x) = 7x+5 ; g(x) = 4x-1; h(x)=x+5.

a) 28x

b) 28x+24

c) 28x+138

d) 28x-24

7) f(x) = x+3 ; g(x) = 5x-9; h(x)=x-8.

a) 5x-46

b) 5x-14

c) -5x-14

d) 5x-49

8) f(x) = 12x+3 ; g(x) = x-4; h(x)=3x.

a) 36x-3

b) 36x-45

c) 36x-135

d) -36x-42

9) f(x) = x-6 ; g(x) = x-3; h(x)=x-9.

a) x-6

b) x-12

c) -x-18

d) x-18

10) f(x) = 7x-4 ; g(x) = 3x+8; h(x)=x+2

a) 21x-2

b) 21x+30

c) 21x+94

d) 21x+2

Name: _____ Score: _____

Composition of Three Functions

ES2

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = 4x+8 ; g(x) = 2x+3; h(x)=x-12.

a) 8x-8

b) 8x+7

c) 8x-76

d) 8x+8

2) f(x) = x-4 ; g(x) = 3x-2; h(x)=7-x.

a) -3x+15

b) -3x+21

c) -3x+13

d) -3x-12

3) f(x) = 10+x ; g(x) = 9-2x; h(x)=3x+7.

a) -6x+64

b) -6x+5

c) -6x+26

d) -6x-7

4) f(x) = x-5 ; g(x) = x-4; h(x)=x-6.

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

5) f(x) = 8x+7 ; g(x) = 4 -2x; h(x)=x+11.

a) 192x-65

b) 192x+136

c) 192x+191

d) 192x-191

7) f(x) = 3x-4 ; g(x) = 1- 6x; h(x)=2x+7.

a) 3x-4

b) -3x+3

c) -3x-13

d) 3x-9

d) 108x+337

9) f(x) = 3-8x ; g(x) = 2x+1; h(x)=x-6.

a) -16x+59

b) -16x+91

c) -16x+1

d) -16x-11

10) f(x) = 11x-2 ; g(x) = x-3; h(x)=x+5.

a) 11x-30

b) 11x

c) 11x+20

d) -11x-5

Name: _____ Score: _____

Answer key

Composition of Three Functions

ES2

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = 4x+8 ; g(x) = 2x+3; h(x)=x-12.

a) 8x-8

b) 8x+7

c) 8x-76

d) 8x+8

2) f(x) = x-4 ; g(x) = 3x-2; h(x)=7-x.

a) -3x+15

b) -3x+21

c) -3x+13

d) -3x-12

3) f(x) = 10+x ; g(x) = 9-2x; h(x)=3x+7.

a) -6x+64

b) -6x+5

c) -6x+26

d) -6x-7

4) f(x) = x-5 ; g(x) = x-4; h(x)=x-6.

5) f(x) = 8x+7 ; g(x) = 4 ...-2x; h(x)=x+11.

a) 192x-65

b) 192x+136

c) 192x+191

d) 192x-191

7) f(x) = 3x-4 ; g(x) = 1- ...6x; h(x)=2x+7.

a) 3x-4

b) -3x+3

c) -3x-13

d) 3x-9

d) 108x+337

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

9) f(x) = 3-8x ; g(x) = 2x+1; h(x)=x-6.

a) -16x+59

b) -16x+91

c) -16x+1

d) -16x-11

10) f(x) = 11x-2 ; g(x) = x-3; h(x)=x+5.

a) 11x-30

b) 11x

c) 11x+20

d) -11x-5

Name: _____ Score: _____

Composition of Three Functions

MS1

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = 4x+8 ; g(x) = x^2+2x+1; h(x)=x-4.

a) $4x^2$+8x-4

b) $4x^2$+8x+8

c) $4x^2$-24x+44

d) $4x^2$-4x-44

2) f(x) = x-4 ; g(x) = 3x-2; h(x)=$(x+2)^2$.

a) $3x^2$+12x+6

b) $9x^2$-72x+144

c) $3x^2$-12x+4

d) $3x^2$-12x-12

3) f(x) = x-15; g(x) = 9-$2x^2$; h(x)=3x+7.

a) $18x^2$-72x+89

b) -$18x^2$-84x-104

c) -$18x^2$-84x-89

d) -$18x^2$+84x-89

4) f(x) = 2x+7 ; g(x) = x-2; h(x)=x^2-7x-8.

5) f(x) = 2x ; g(x) = 9x-5

7-2x; h(x)=3x+5.

a) 126x^2-144x+4

b) 7x^2-144x-37

c) 7x^2+144x+44

d) 126x^2+144-37

7) f(x) = 3x-4 ; g(x) = x^2

-6x; h(x)=$2x^2$+7.

a) x^2+x+18

b) $9x^2$+3x-18

c) $3x^2$-3x-58

d) $9x^2$+18

d) $108x^2$-54x+12

9) f(x) = x^2+2x+5; g(x) = 2x+1; h(x)=x-6.

a) $4x^2$-40x+121

b) $4x^2$-40x+104

c) $2x^2$+4x+5

d) $4x^2$+40x-121

10) f(x) = 11x-2 ; g(x) = x+4; h(x)=x^2-5x-3.

a) 11x^2-30x+9

b) 11x^2+55x+9

c) 11x^2-55x+9

d) -11x^2-5

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name: _____ Score: _____

Answer key

Composition of Three Functions

MS1

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = 4x+8 ; g(x) = x^2+2x+1; h(x)=x-4.

a) $4x^2$+8x-4

b) $4x^2$+8x+8

c) $4x^2$-24x+44

d) $4x^2$-4x-44

2) f(x) = x-4 ; g(x) = 3x-2; h(x)=$(x+2)^2$.

a) $3x^2$+12x+6

b) $9x^2$-72x+144

c) $3x^2$-12x+4

d) $3x^2$-12x-12

3) f(x) = x-15; g(x) = 9-$2x^2$; h(x)=3x+7.

a) $18x^2$-72x+89

b) $-18x^2$-84x-104

c) $-18x^2$-84x-89

d) $-18x^2$+84x-89

4) f(x) = 2x+7 ; g(x) = x-2; h(x)=x^2-7x-8.

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

5) f(x) = 2x ; g(x) = 9x-5

a) $126x^2$-144x+4

b) $7x^2$-144x-37

c) $7x^2$+144x+44

d) $126x^2$+144-37

7-2x; h(x)=3x+5.

7) f(x) = 3x-4 ; g(x) = x^2

c) $3x^2$-3x-58

d) $9x^2$+18

-6x; h(x)=$2x^2$+7.

a) x^2+x+18

b) $9x^2$+3x-18

d) $108x^2$-54x+12

9) f(x) = x^2+2x+5; g(x) = 2x+1; h(x)=x-6.

a) $4x^2$-40x+121

b) $4x^2$-40x+104

c) $2x^2$+4x+5

d) $4x^2$+40x-121

10) f(x) = 11x-2 ; g(x) = x+4; h(x)=x^2-5x-3.

a) $11x^2$-30x+9

b) $11x^2$+55x+9

c) $11x^2$-55x+9

d) $-11x^2$-5

Name: _____ Score: _____

Composition of Three Functions

MS2

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = x-2 ; g(x) = x^2+1; h(x)=x-3.

a) x^2-6x+10

b) x^2-6x+8

c) -x^2-4x+2

d) x^2-4x+2

2) f(x) = 2x-4 ; g(x) = x+7; h(x)=2x^2+3x+2.

a) 2x^2+6x+11

b) 2x^2-6x+14

c) 4x^2+6x+14

d) 2x^2+6x-14

3) f(x) = 3x^2-7 ; g(x) = x+8; h(x)=-4-x.

a) -3x^2-48x-191

b) 3x^2+48x+41

c) -5-3x^2

d) 3x^2-24x+41

4) f(x) = x-4; g(x) =3x^2+5x+7; h(x)=5-x.

5) f(x) = 2x+1; g(x) = x = x-7; h(x)=x+5.

a) 50x^2+40x+5

b) 50x^2+40x+11

c) x^2+11x+6

d) x^2+40x+11

7) f(x) = x+3 ; g(x) = 5x- -1; h(x)=3x^2.

a) 5x^2-40x+29

b) 5x^2-14x-23

c) -5x^2-14x-23

d) 5x^2+40x-26

d) 4x^2+x+9

9) f(x) = x^2+4x+5 ; g(x) = x-8; h(x)=x+9.

a) x^2-6x+10

b) x^2+6x-6

c) x^2+6x+6

d) x^2+6x+10

10) f(x) = 2x+9 ; g(x) = x^2; h(x)=x+2

a) 2x^2+8x+8

b) 2x^2-8x-9

c) 2x^2+8x+17

d) 2x^2-8x-17

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com

Name: _____ Score: _____

Answer key

Composition of Three Functions

MS2

Choose the correct choice that best describes f ∘ (g ∘ h).

1) f(x) = x-2 ; g(x) = x^2+1; h(x)=x-3.

a) x^2-6x+10

b) x^2-6x+8

c) -x^2-4x+2

d) x^2-4x+2

2) f(x) = 2x-4 ; g(x) = x+7; h(x)=$2x^2$+3x+2.

a) $2x^2$+6x+11

b) $2x^2$-6x+14

c) $4x^2$+6x+14

d) $2x^2$+6x-14

3) f(x) = $3x^2$-7 ; g(x) = x+8; h(x)=-4-x.

a) -$3x^2$-48x-191

b) $3x^2$+48x+41

c) -5-$3x^2$

d) $3x^2$-24x+41

4) f(x) = x-4; g(x) =$3x^2$+5x+7; h(x)=5-x.

5) f(x) = 2x+1; g(x) = x = x-7; h(x)=x+5.

a) $50x^2$+40x+5

b) $50x^2$+40x+11

c) x^2+11x+6

d) x^2+40x+11

7) f(x) = x+3 ; g(x) = 5x- -1; h(x)=$3x^2$.

a) $5x^2$-40x+29

b) $5x^2$-14x-23

c) -$5x^2$-14x-23

d) $5x^2$+40x-26

d) $4x^2$+x+9

9) f(x) = x^2+4x+5 ; g(x) = x-8; h(x)=x+9.

a) x^2-6x+10

b) x^2+6x-6

c) x^2+6x+6

d) x^2+6x+10

10) f(x) = 2x+9 ; g(x) = x^2; h(x)=x+2

a) $2x^2$+8x+8

b) $2x^2$-8x-9

c) $2x^2$+8x+17

d) $2x^2$-8x-17

PREVIEW

Access the largest collection of worksheets for just $19.95 per year!

Members, please log in to download this worksheet.

Log in

Not a member? Please sign up to gain complete access.

Sign up

www.mathworksheets4kids.com