Name : _____ Score : _____

Quadratic Equation

ES1

Form the quadratic equation from the given roots.

1) $x = \pm 3$

2) $z = \frac{4}{5}$; $z = -2$

3) $p = 9$; $p = -8$

4) $n = \frac{2}{3}$; $n = -\frac{1}{3}$

5) $k = \frac{1}{3}$; $k = \frac{7}{2}$

6) $u = 1$; $u = -4$

7) $y = -6$; $y = -1$

8) $t = 8$; $t = -\frac{7}{2}$

9) $q = \frac{2}{7}$; $q = 6$

10) $m = 4$; $m = -3$

Name : _____ Score : _____

Answer key

Quadratic Equation

ES1

Form the quadratic equation from the given roots.

1) $x = \pm 3$

$x^2 - 9 = 0$

2) $z = \frac{4}{5}$; $z = -2$

$5z^2 + 6z - 8 = 0$

3) $p = 9$; $p = -8$

$p^2 - p - 72 = 0$

4) $n = \frac{2}{3}$; $n = -\frac{1}{3}$

$9n^2 - 3n - 2 = 0$

5) $k = \frac{1}{3}$; $k = \frac{7}{2}$

$6k^2 - 23k + 7 = 0$

6) $u = 1$; $u = -4$

$u^2 + 3u - 4 = 0$

7) $y = -6$; $y = -1$

$y^2 + 7y + 6 = 0$

8) $t = 8$; $t = -\frac{7}{2}$

$2t^2 - 9t - 56 = 0$

9) $q = \frac{2}{7}$; $q = 6$

$7q^2 - 44q + 12 = 0$

10) $m = 4$; $m = -3$

$m^2 - m - 12 = 0$

Name : _____ Score : _____

Quadratic Equation

ES2

Form the quadratic equation from the given roots.

1) $p = -9 \; ; \; p = -\frac{2}{3}$

2) $g = \frac{1}{2} \; ; \; g = -4$

3) $u = -8 \; ; \; u$ [illegible] $= 3$

5) $d = -\frac{1}{6} \; ;$ [illegible] $= \frac{5}{3}$

7) $n = -\frac{1}{2} \; ;$

9) $w = -6 \; ; \; w = 8$

10) $t = \frac{8}{9} \; ; \; t = -\frac{9}{4}$

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Answer key

Quadratic Equation

ES2

Form the quadratic equation from the given roots.

1) $p = -9 \; ; \; p = -\frac{2}{3}$

$3p^2 + 29p + 18 = 0$

2) $g = \frac{1}{2} \; ; \; g = -4$

$2g^2 + 7g - 4 = 0$

3) $u = -8 \; ; \; u$ [illegible] $= 3$

$u^2 + 3u -$ [illegible] **$+ 21 = 0$**

5) $d = -\frac{1}{6} \; ;$ [illegible] $= \frac{5}{3}$

$12d^2 - 16$ [illegible] **$q + 10 = 0$**

7) $n = -\frac{1}{2} \; ;$ [illegible]

$2n^2 + 7n$ [illegible] **0**

9) $w = -6 \; ; \; w = 8$

$w^2 - 2w - 48 = 0$

10) $t = \frac{8}{9} \; ; \; t = -\frac{9}{4}$

$36t^2 + 49t - 72 = 0$

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Name : _____ Score : _____

Quadratic Equation

ES3

Form the quadratic equation from the given roots.

1) $h = -6$; $h = 5$

2) $s = \frac{1}{5}$; $s = 9$

3) $d = -\frac{1}{4}$; [illegible] $w = -8$

5) $m = 4$; n[illegible]

7) $x = \frac{2}{3}$; x[illegible] ; $p = -\frac{3}{2}$

9) $v = -2$; $v = \frac{5}{3}$

10) $y = -9$; $y = -5$

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Name : _____ **Answer key** Score : _____

Quadratic Equation

ES3

Form the quadratic equation from the given roots.

1) $h = -6$; $h = 5$

$h^2 + h - 30 = 0$

2) $s = \frac{1}{5}$; $s = 9$

$5s^2 - 46s + 9 = 0$

3) $d = -\frac{1}{4}$; ... $w = -8$

$20d^2 - 11$ ... $- 8 = 0$

5) $m = 4$; n...

$m^2 - 12m$ ... $= 0$

7) $x = \frac{2}{3}$; x... ; $p = -\frac{3}{2}$

$3x^2 + 10x - 8 = 0$

$10p^2 + 19p + 6 = 0$

9) $v = -2$; $v = \frac{5}{3}$

$3v^2 + v - 10 = 0$

10) $y = -9$; $y = -5$

$y^2 + 14y + 45 = 0$

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Name : _____ Score : _____

Quadratic Equation

MS1

Form the quadratic equation from the given roots.

1) $p = \frac{3 - 5i}{6}$; $p = \frac{3 + 5i}{6}$

2) $n = \sqrt{6} + 3i$; $n = \sqrt{6} - 3i$

3) $y = -2$; y [illegible] $\sqrt{2}i$; $u = -9 - \sqrt{2}i$

5) $h = \frac{1 + \sqrt{}}{2}$ [illegible] $= -\frac{1}{3}$

7) $t = 7 + 2\sqrt{}$ [illegible] i ; $x = \frac{-4 + 2i}{3}$

9) $z = -8 - i$; $z = -8 + i$

10) $v = \frac{2 - 4\sqrt{5}}{5}$; $v = \frac{2 + 4\sqrt{5}}{5}$

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Name : _____ Score : _____

Answer key

Quadratic Equation

MS1

Form the quadratic equation from the given roots.

1) $p = \frac{3 - 5i}{6}$; $p = \frac{3 + 5i}{6}$

$18p^2 - 18p + 17 = 0$

2) $n = \sqrt{6} + 3i$; $n = \sqrt{6} - 3i$

$n^2 - 2\sqrt{6}n + 15 = 0$

3) $y = -2$; y $\sqrt{2}i$; $u = -9 - \sqrt{2}i$

$y^2 + 3y +$ $+ 83 = 0$

5) $h = \frac{1 + \sqrt{}}{2}$ $= -\frac{1}{3}$

$4h^2 - 4h$ $- 1 = 0$

7) $t = 7 + 2\sqrt{}$ i ; $x = \frac{-4 + 2i}{3}$

$t^2 - 14t + 37 = 0$

$9x^2 + 24x + 20 = 0$

9) $z = -8 - i$; $z = -8 + i$

10) $v = \frac{2 - 4\sqrt{5}}{5}$; $v = \frac{2 + 4\sqrt{5}}{5}$

$z^2 + 16z + 65 = 0$

$25v^2 - 20v - 76 = 0$

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Name : _____ Score : _____

Quadratic Equation

MS2

Form the quadratic equation from the given roots.

1) $u = -5 - 2i$; $u = -5 + 2i$

2) $m = \frac{3 + \sqrt{8}}{6}$; $m = \frac{3 - \sqrt{8}}{6}$

3) $d = \frac{6 + \sqrt{}$; $x = 9 + 4i$

5) $n = -\frac{2}{7}$ $\sqrt{10}$ $k = \frac{-7 + \sqrt{10}}{3}$

7) $z = \sqrt{20} +$ $= -4$

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9) $p = 4 + 6\sqrt{2}$; $p = 4 - 6\sqrt{2}$

10) $h = \frac{2 + 6i}{8}$; $h = \frac{2 - 6i}{8}$

Name : _____ Score : _____

Answer key

Quadratic Equation

MS2

Form the quadratic equation from the given roots.

1) $u = -5 - 2i \; ; u = -5 + 2i$

$u^2 + 10u + 29 = 0$

2) $m = \frac{3 + \sqrt{8}}{6} \; ; m = \frac{3 - \sqrt{8}}{6}$

$36m^2 - 36m + 1 = 0$

3) $d = \frac{6 + \sqrt{}}{4}$; $x = 9 + 4i$

$16d^2 - 48$ **$- 97 = 0$**

5) $n = -\frac{2}{7}$ $\sqrt{10}$ $k = \frac{-7 + \sqrt{10}}{3}$

$56n^2 + 6$ **$+ 13 = 0$**

7) $z = \sqrt{20} +$ $= -4$

$z^2 - 4\sqrt{5}z + 21 = 0$

$t^2 - 8t - 48 = 0$

9) $p = 4 + 6\sqrt{2} \; ; p = 4 - 6\sqrt{2}$

$p^2 - 8p - 56 = 0$

10) $h = \frac{2 + 6i}{8} \; ; h = \frac{2 - 6i}{8}$

$8h^2 - 4h + 5 = 0$

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Name : _____ Score : _____

Quadratic Equation

MS3

Form the quadratic equation from the given roots.

1) $w = \frac{4 + \sqrt{7}}{5}$; $w = \frac{4 - \sqrt{7}}{5}$

2) $v = \frac{5 - 2i}{2}$; $v = \frac{5 + 2i}{2}$

3) $s = 7 + 2\sqrt{\quad} = 11$

5) $y = \frac{-3\sqrt{3}}{6}$ $\sqrt{12}$; $m = \frac{1 + \sqrt{12}}{3}$

7) $g = 6 + i$; $\sqrt{5}$; $q = -10 - \sqrt{5}$

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9) $n = -\frac{5}{4}$; $n = \frac{1}{2}$

10) $d = \frac{2 - \sqrt{18}}{4}$; $d = \frac{2 + \sqrt{18}}{4}$

Name : _____ Score : _____

Answer key

Quadratic Equation

MS3

Form the quadratic equation from the given roots.

1) $w = \frac{4+\sqrt{7}}{5}$; $w = \frac{4-\sqrt{7}}{5}$

$25w^2 - 40w + 9 = 0$

2) $v = \frac{5-2i}{2}$; $v = \frac{5+2i}{2}$

$4v^2 - 20v + 29 = 0$

3) $s = 7 + 2\sqrt{}$ = 11

$s^2 - 14s +$ 7 = 0

5) $y = \frac{-3\sqrt{3}}{6}$ $\sqrt{12}$; $m = \frac{1+\sqrt{12}}{3}$

$y^2 + \sqrt{3}\,y$ − 11 = 0

7) $g = 6 + i$; $\sqrt{5}$; $q = -10 - \sqrt{5}$

$g^2 - 12g + 37 = 0$

$q^2 + 20q + 95 = 0$

9) $n = -\frac{5}{4}$; $n = \frac{1}{2}$

$8n^2 + 6n - 5 = 0$

10) $d = \frac{2-\sqrt{18}}{4}$; $d = \frac{2+\sqrt{18}}{4}$

$8d^2 - 8d - 7 = 0$

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