

Name : _____

Factorize & Simplify

MS3

Factorize each expression and reduce to its lowest term.

1) $\frac{8x + 56}{x^2 + 10x + 21}$

2) $\frac{60 - 10a}{a^2 - 11a + 30}$

3) $\frac{k^2 + 13k + 22}{k^2 + 17k + 66}$

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5) $\frac{36p^2 - 49}{30p - 35}$

7) $\frac{s^2 - 7s + 10}{s - 2}$

8) $\frac{(5r + 20)(r + 2)}{r^2 + 6r + 8}$

Name : _____

Answer key

MS3

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{8x + 56}{x^2 + 10x + 21}$

$\frac{8}{x + 3}$

2) $\frac{60 - 10a}{a^2 - 11a + 30}$

$\frac{-10}{a - 5}$

3) $\frac{k^2 + 13k + 22}{k^2 + 17k + 66}$

$\frac{k + 2}{k + 6}$

5) $\frac{36p^2 - 49}{30p - 35}$

$\frac{6p + 7}{5}$

7) $\frac{s^2 - 7s + 10}{s - 2}$

$s - 5$

8) $\frac{(5r + 20)(r + 2)}{r^2 + 6r + 8}$

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