

Name : _____

Factorize & Simplify

MS1

Factorize each expression and reduce to its lowest term.

1) $\frac{4x + 20}{x^2 + 9x + 20}$

2) $\frac{a^2 - 1}{(a + 1)(a + 3)}$

3) $\frac{k^2 - 4k + 4}{k - 2}$

5) $\frac{s^2 + 6s + 5}{s^2 - s - 30}$

7) $\frac{9y^2 - 22y + 8}{6y - 12}$

8) $\frac{-2(m - 5)(m - 1)}{m^2 - 6m + 5}$

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Name : _____

Answer key

MS1

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{4x + 20}{x^2 + 9x + 20}$

$\frac{4}{x + 4}$

2) $\frac{a^2 - 1}{(a + 1)(a + 3)}$

$\frac{a - 1}{a + 3}$

3) $\frac{k^2 - 4k + 4}{k - 2}$

$k - 2$

5) $\frac{s^2 + 6s + 5}{s^2 - s - 30}$

$\frac{s + 1}{s - 6}$

7) $\frac{9y^2 - 22y + 8}{6y - 12}$

$\frac{9y - 4}{6}$

8) $\frac{-2(m - 5)(m - 1)}{m^2 - 6m + 5}$

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