

Name : _____

Factorize & Simplify

DS3

Factorize each expression and reduce to its lowest term.

1) $\frac{4a^3 - 12a^2 + 9a}{8a^2 - 12a}$

2) $\frac{5x^2 - 10x - 175}{x^2 - 12x - 85}$

3) $\frac{(m^2 - 36)(m^2 - m - 3)}{m^2 - m - 3}$

$\frac{-240}{-192}$

5) $\frac{64p^4 - 8p}{16p^3 + 8p^2 + 1}$

$\frac{3b^2}{2b^2}$

7) $\frac{42 + 11n - n^2}{n^2 + 39n + 108}$

8) $\frac{4z^2 - 25}{6z^2 - 11z - 10}$

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Name : _____

Answer key

Factorize & Simplify

DS3

Factorize each expression and reduce to its lowest term.

1) $\frac{4a^3 - 12a^2 + 9a}{8a^2 - 12a}$

$\frac{2a - 3}{4}$

2) $\frac{5x^2 - 10x - 175}{x^2 - 12x - 85}$

$\frac{5(x - 7)}{x - 17}$

3) $\frac{(m^2 - 36)(m^2 - m - 3)}{m^2 - m - 3}$

$m + 6$

5) $\frac{64p^4 - 8p}{16p^3 + 8p^2 + p}$

$4p - 2$

7) $\frac{42 + 11n - n^2}{n^2 + 39n + 108}$

$-\frac{n - 14}{n + 36}$

8) $\frac{4z^2 - 25}{6z^2 - 11z - 10}$

$\frac{2z + 5}{3z + 2}$

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