

Name : _____

Factorize & Simplify

DS4

Factorize each expression and reduce to its lowest term.

1) $\frac{18m^2 - 30m + 138}{182 + 21m^2 - 35m}$

2) $\frac{(p^2 - 81)(p + 7)}{p^2 - 2p - 63}$

3) $\frac{(5x - 7)(3x - 2)}{10x^2 - 9x - 2}$

$\frac{-56n}{2n}$

5) $\frac{64 - b^2}{32 - 12b + b^2}$

$\frac{126}{2}$

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7) $\frac{t^4 - 216t}{t^3 - t^2 - 30t}$

8) $\frac{y^2 - 7y + 49}{y^3 + 343}$

Name : _____

Answer key

DS4

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{18m^2 - 30m + 138}{182 + 21m^2 - 35m}$

2) $\frac{(p^2 - 81)(p + 7)}{p^2 - 2p - 63}$

$\frac{6}{7}$

$p + 9$

3) $\frac{(5x - 7)(3x - 2)}{10x^2 - 9x - 2}$

$\frac{-56n}{2n}$

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

5) $\frac{64 - b^2}{32 - 12b + b^2}$

$\frac{126}{1}$

$\frac{8 + b}{4 - b}$

7) $\frac{t^4 - 216t}{t^3 - t^2 - 30t}$

8) $\frac{y^2 - 7y + 49}{y^3 + 343}$

$\frac{t^2 + 6t + 36}{t - 5}$

$\frac{1}{y + 7}$

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