

Name : _____

Factorize & Simplify

MS2

Factorize each expression and reduce to its lowest term.

1) $\frac{c^2 - 9c + 14}{c^2 - 12c + 35}$

2) $\frac{81y^2 - 64}{9y - 8}$

3) $\frac{1 + 3a + 9a^2}{1 - 27a^3}$

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5) $\frac{u^2 - 6u + 9}{u - 3}$

7) $\frac{n^2 - 8n + 15}{n^2 + n - 12}$

8) $\frac{t^2 + 10t + 25}{7t + 35}$

Name : _____

Answer key

MS2

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{c^2 - 9c + 14}{c^2 - 12c + 35}$

$\frac{c - 2}{c - 5}$

2) $\frac{81y^2 - 64}{9y - 8}$

$9y + 8$

3) $\frac{1 + 3a + 9a^2}{1 - 27a^3}$

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

5) $\frac{u^2 - 6u + 9}{u - 3}$

$u - 3$

7) $\frac{n^2 - 8n + 15}{n^2 + n - 12}$

$\frac{n - 5}{n + 4}$

8) $\frac{t^2 + 10t + 25}{7t + 35}$

$\frac{t + 5}{7}$

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