

Name : _____

Factorize & Simplify

MS4

Factorize each expression and reduce to its lowest term.

1) $\frac{49p^2 - 36}{7p + 6}$

2) $\frac{z^2 - 2z - 8}{z^2 + 7z + 10}$

3) $\frac{(4t + 12)(t - 3)}{t^2 + 2t - 3}$

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

7) $\frac{3c + 27}{c^2 + 7c - 18}$

8) $\frac{n^3 - 27}{n - 3}$

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Name : _____

Answer key

MS4

Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1) $\frac{49p^2 - 36}{7p + 6}$

$7p - 6$

2) $\frac{z^2 - 2z - 8}{z^2 + 7z + 10}$

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

3) $\frac{(4t + 12)(t - 3)}{t^2 + 2t - 3}$

4

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

$\frac{1}{4b + 1}$

7) $\frac{3c + 27}{c^2 + 7c - 18}$

$\frac{3}{c - 2}$

8) $\frac{n^3 - 27}{n - 3}$

$n^2 + 3n + 9$

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