

Name : \_\_\_\_\_

## Factorize & Simplify

MS5

Factorize each expression and reduce to its lowest term.

1)  $\frac{-3(t-5)(t+7)}{t^2+2t-35}$

2)  $\frac{r^3+1}{r+1}$

3)  $\frac{25p^2-64}{(5p+8)(p+...)}$

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5)  $\frac{5y-35}{y^2-4y-21}$

7)  $\frac{u-5}{u^2-25}$

8)  $\frac{2z^4-8z}{5z+10}$

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## Answer key

MS5

### Factorize & Simplify

Factorize each expression and reduce to its lowest term.

1)  $\frac{-3(t-5)(t+7)}{t^2+2t-35}$

**-3**

2)  $\frac{r^3+1}{r+1}$

**$r^2-r+1$**

3)  $\frac{25p^2-64}{(5p+8)(p+2)}$

**$\frac{5p-8}{p+2}$**

5)  $\frac{5y-35}{y^2-4y-21}$

**$\frac{5}{y+3}$**

7)  $\frac{u-5}{u^2-25}$

**$\frac{1}{u+5}$**

8)  $\frac{2z^4-8z}{5z+10}$

**$\frac{2z^3-4z^2}{5}$**

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