

DIRECTIONS: Simplify.

Example 1: $\frac{5x^2-15x}{10x^2}$

Example 2: $\frac{m^2-m-2}{m^2+m}$

Example 3: $\frac{w^2-5w+6}{w^2-7w+12}$

Example 4: $(r^2 - 5r + 4)(r - 4)^{-2}$

Example 5: $\frac{x^2+2x-8}{(2-x)(4+x)}$

1. $\frac{3t^4-9t^3}{6t^2}$

2. $\frac{z^3-4z}{z^2-4z+4}$

3. $(p^2 - pb)(p^2 - b^2)^{-1}$

4. $\frac{(a-x)^2}{x^2-a^2}$

5. $\frac{2t^2+5t-3}{2t^2+7t+3}$

6. $\frac{9-4z^2}{6z^2-5z-6}$

7. $(p^2 + 4p - 5)(p - 1)^{-2}$

8. $\frac{(t+1)(t^2-1)}{(t-1)(t+1)^2}$

9. $(1 - r^3)(1 - r)^{-3}$

10. $\frac{t^4-c^4}{(t+c)^2(t^2+c^2)}$