

Name _____
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Date _____
Algebra II

Reducing Rational Expressions

Reduce the rational expression to simplest terms (*Hint: Factor then cancel*)

1. $\frac{6x^5}{9x^3}$

2. $\frac{x^2 - 2x - 3}{1 - x^2}$

3. $\frac{2x + 6}{x^2 - 9}$

4. $\frac{10 - 5x}{x^2 + 2x - 8}$

5. $\frac{6x + 18}{6x + 12}$

6. $\frac{2x^2 + x - 6}{9 - 4x^2}$

$$7. \frac{x^2 + 3x + 2}{x^3 + 2x^2 + 8x + 16}$$

$$8. \frac{3x^2 + 7x - 6}{4 - 9x^2}$$

$$9. \frac{x^3 + 8}{2x^2 - 4x + 8}$$

$$10. \frac{2x^4 + 4x^3 - 6x^2}{4x^3 - 36x}$$