

Algebra 2: Homework 16

In 1 – 3, factor completely.

1. $4x^4y^2 - 49z^6$

2. $10x^2y^2 - 50$

3. $3x^4 - 48$

In 4 – 7, simplify.

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

5. $\frac{10x^5}{2x^3 + 2x^2}$

6. $\frac{y^2 + 2y - 3}{y^2 - 3y - 18} \cdot \frac{4y^2 - 24y}{2 - 2y}$

7. $\frac{x^2 - 2x - 8}{3x - 12} \div \frac{x^2 - 4}{9x^2 - 18x}$

8. State the solution set and graph the solution set on a number line:
 $|x + 4| - 2 \geq 7$