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SCORE: _____ / 6 POINTS

ONLY FINAL ANSWERS IN THE SPACES PROVIDED WILL BE GRADED
NO CREDIT IF I CANNOT UNDERSTAND WHAT YOUR FINAL ANSWER IS

**FINAL ANSWERS
ONLY ↓**

[1] Simplify.

$$\frac{9 - x^2}{x^2 + 3x - 18}$$

$$- \frac{x+3}{x+6}$$

[2] Multiply and simplify.

$$\frac{x^2 + 4x}{x^2 - 36} \cdot \frac{x^2 - 4x - 12}{x^2 + 6x + 8}$$

$$\frac{x}{x+6}$$

[3] Multiply and simplify.

$$\frac{3x^2 - x - 4}{x^2 - 5x - 6} \cdot \frac{4x^2 - 23x - 6}{6x^2 + x - 12}$$

$$\frac{4x+1}{2x+3}$$

[4] Divide and simplify.

$$\frac{x^2 + 5x - 14}{x^2 - 2x - 8} \div \frac{x^2 - 8x + 12}{x^2 - x - 12}$$

$$\frac{(x+7)(x+3)}{(x+2)(x-6)}$$

[5] Divide and simplify.

$$\frac{2x^2 + 4x - 48}{-3x^2 - 15x + 18} \div \frac{4x^2 - 4x - 8}{9x^2 - 18x + 9}$$

$$\frac{-3(x-4)(x-1)}{2(x-2)(x+1)}$$

[6] Divide and simplify.

$$\frac{30 - 45x}{28x + 14} \div \frac{75x - 50}{12 + 24x}$$

$$\frac{-18}{35}$$