Math 114
8:30am – 9:20am Lab Quiz Version C
Tue Jan 14, 2014

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NAME YOU ASKED TO BE CALLED: _____

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.

$$\frac{16-x^2}{x^2+3x-28}$$

$$-\frac{x+4}{x+7}$$

[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.

$$\frac{3x^2-17x-6}{x^2-4x-12}\cdot\frac{4x^2+5x-6}{9x^2+15x+4}$$

$$\frac{4x-3}{3x+4}$$

[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.

$$\frac{2x^2-12x+18}{-3x^2-6x+9}\div\frac{4x^2-4x-24}{9x^2+27x+18}$$

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

[6] Divide and simplify.

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

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