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

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

[1] Simplify.

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

[2] Multiply and simplify.

$$\frac{x^2+x-6}{x^2+9x+18}\cdot\frac{x^2+6x}{x^2-4}$$

[3] Multiply and simplify.

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

[4] Divide and simplify.

$$\frac{x^2+7x-8}{x^2+2x-15}\div\frac{x^2+5x-6}{x^2+3x-10}$$

[5] Divide and simplify.

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

[6] Divide and simplify.

$$\frac{\dfrac{42x+28}{45-30x}}{\dfrac{12+36x}{50x-75}}$$

FINAL ANSWERS ONLY ⬇

$-\dfrac{x+3}{x+6}$
$\dfrac{x}{x+2}$
$\dfrac{4x+1}{2x+3}$
$\dfrac{(x+8)(x-2)}{(x-3)(x+6)}$
$\dfrac{-3(x-4)(x-1)}{2(x-2)(x+1)}$
$\dfrac{-35(3x+2)}{18(3x+1)}$