

GATEWAY TEST 1A
Algebra
Name _____ **Date** _____
Class _____ **Section** _____

1. Factor and simplify. Express the answer as a fraction without negative exponents.

$$x(x-1)^{-1/2} + 2(x-1)^{1/2}$$

2. Express as a simple fraction.

$$\frac{\frac{1}{y-k} - \frac{1}{y}}{k}$$

3. Multiply.

$$\left(x^{3/2} + \frac{2}{\sqrt{3}}\right)^2$$

4. Solve for x .

$$x^2 - x = 5$$

5. Find the smallest value of x that satisfies the equation.

$$\lfloor x + 5 \rfloor = 3$$

6. Write the general form of the equation of the line passing through the point $(3, -1)$ with slope $\frac{4}{3}$.

7. Solve for y' .

$$xy' + y = 1 + y'$$

8. Write the equation of the circle in standard form and give the center and radius.

$$2x^2 + 2y^2 + 4x - 12y + 11 = 0$$

9. Solve for x .

$$2(x-5)^{-1} + \frac{1}{x} = 0$$

10. Find the domain of f .

$$f(x) = \sqrt{2x+3}$$

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