Algebra 2 Practice Exam =

$$\frac{4-\sqrt{2}}{\sqrt{2}+3}$$

$$\sqrt{x^2 - 10}x - 16 = x - 4$$

$$x^2 - 10x - 16 = (x - 4)^2$$

$$\kappa^2 - 10\chi - 16 = \kappa^2 - 8\chi + 16$$

$$-2x - 32 = 0$$

$$-2x = 32$$

$$x = \frac{9}{2}$$
 in

$$8x^2 - 4x - 6x + 3$$

$$f(x) = x^{2} + 4x - 7 \qquad g(x) = 4x + 3$$

$$f(g(x)) = (4x + 3)^{2} + 4(4x + 3) - 7$$

$$= 16x^{2} + 24x + 9 + 16x + 12 - 7$$

$$= 16x^{2} + 40x + 14$$

$$\therefore 2(8x^{2} + 20x + 7)$$

$$\log_2\left(\frac{1}{R}\right) + \log_2\left(16\right)$$

$$\log_2\left(\frac{1}{8} \times 16\right)$$

$$\log_2\left(2\right)$$

$$2^{2} = 2^{1}$$

$$x = 1$$

$$y = \frac{x-2}{3}$$

$$x = \frac{y-2}{3}$$

$$3x = y-2$$

$$y = 3x+2$$

x=4/

$$y = x^{2} - x - 6$$

$$y = 2x - 2$$

$$y^{2} - x - 6 = 2x - 2$$

$$x^{2} - 3x - 4 = 0$$

$$(x - 4)(x + 1) = 0$$

$$x - 4 = 0$$

$$x + 1 = 0$$

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$$y=2(4)-2$$
 $y=2(-1)-2$
 $y=6$ $y=-4$ $(-1,-4)$

$$\frac{3i^3+2i^6}{3i^3+2i^6}$$

$$d = st$$

$$f(x) = x+2$$







