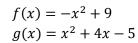
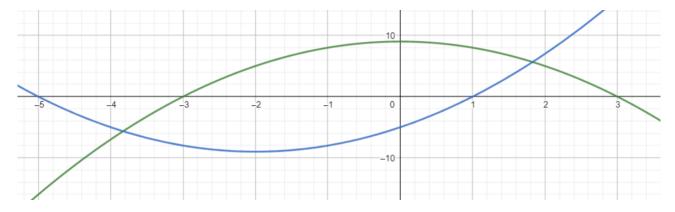
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Find skæringpunkter

$$g(x) = f(x)$$

$$x^{2} + 4x - 5 = -x^{2} + 9$$

$$x^{2} + x^{2} + 4x - 5 - 9 = 0$$

$$2x^{2} + 4x - 14 = 0$$

$$a = 2$$

$$b = 4$$

$$c = -14$$

$$x_{1,2} = \frac{-b \pm \sqrt{b^{2} - 4ac}}{2a}$$

$$x_{1,2} = \frac{-4 \pm \sqrt{4^{2} - 4 \cdot 2 \cdot (-14)}}{2 \cdot 2}$$

$$Define: x_{1} = -3,828427$$

$$Define: x_{2} = 1,828427$$

Find Areal

$$F(x) = \int_{x_1}^{x_2} f(x) - g(x) dx$$

$$Define: F(x) = -\frac{1}{3}x^3 + 9x - \frac{1}{3}x^3 - \frac{4}{2}x^2 + 5x$$

$$A = [F(x)]_{x_1}^{x_2}$$

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$$A = F(x_2) - F(x_1)$$

$$A = 60,33978$$