

9.47
21

$$2x^2(x^2 - 4x + 4) + 3 = -5x(x-2)$$

$$2x^2(x-2)^2 + 5x(x-2) + 3 = 0$$

$$2t^2 + 5t + 3 = 0$$

$$t = x(x-2)$$

$$t_1 = -1$$

$$t_2 = -\frac{3}{2}$$

$$x^2 - 2x + 1 = 0$$

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

$$\boxed{x=1}$$

$$2x^2 - 4x + 3 = 0$$

no real roots