

$$14. \quad f'(x) = 3x^2 - 48x + 144$$

$$a = 3 \quad b = -48 \quad c = 144$$

$$\Delta = (-48)^2 - 4 \times 3 \times 144 = 576$$



$$x_1 = \frac{48 - 24}{6} = 4 \quad x_2 = \frac{48 + 24}{6} = 12$$

x	0	4	12
f'		+	0
f			-
	$f(0)$	$f(4)$	$f(12)$

$$f(0) = 0 \quad f(4) = 256 \quad f(12) = 0$$