

$$9) \int_{-10}^{10} x^{2n+1} dx = 0$$

$$10) x^2 - 7x + 10 = 0$$

$$(x-2)(x-5)$$

$$x=2, x=5$$

bounds

$$\int_2^5 x^2 - 7x + 10 dx$$

$$= \left[ \frac{x^3}{3} - \frac{7x^2}{2} + 10x \right]_2^5$$

$$= \left[ \frac{125}{3} - \frac{175}{2} + 50 \right] - \left[ \frac{8}{3} - 14 + 20 \right]$$

$$11) C(x) = x^2 + 32x + 1600$$

$$A(x) = \frac{C(x)}{x}$$

$$A(x) = C'(x)$$

$$\frac{x^2 + 32x + 1600}{x} = 2x + 32$$

$$x^2 + 32x + 1600 = 2x^2 + 32x$$

$$1600 = x^2$$

$$x = 40$$