



Question 10.

$$b \text{ ii } P = 2x(x^2 + 64 + b^2 + 16\sqrt{64 + b^2})(x^2 + 64 + b^2 - 16\sqrt{64 + b^2})$$

$$P = 2x(x^2 + 64 + b^2 + 16\sqrt{64 + b^2})(x^2 + 64 + b^2 - 16\sqrt{64 + b^2})$$

$$= 2x(x^2 + 64 + b^2 + 16\sqrt{64 + b^2} + 64 + b^2 - 16\sqrt{64 + b^2})$$

$$= 128x + 2b^2x$$

$$i \ y' = 1 \cdot (2b^2 + 2(x+8)x) - b^2 + (x+8)^2$$

$$= 2b^2 + 4(2x+16)x - b^2 + (x+8)^2$$

$$= 2b^2 + 8x + 64 + 2x - b^2 + x + 16$$