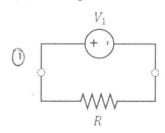
B1:60 degrees

- (a) Find the average power P supplied.
- (b) Find A_1 .



$$A_1\sqrt{2}\cos(500t + B_1)$$

$$A_1\sqrt{2}\cos(500t + B_1)$$

(a) CIRCUIT (1):
$$P = \frac{V_1^2}{R} = \frac{36}{2} \Rightarrow P = 18 \text{ W}$$

$$V_{RMS} = V_1 = 6V$$

$$V_{RMS} = \frac{V_m}{V_2} = \frac{A_1 V_2}{V_2}$$