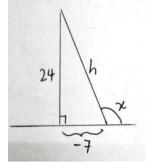
Answers:

(1) Given that $tanx = -\frac{24}{7}$ $\therefore x = 90^{\circ} to \ 180^{\circ}$



$$h = \sqrt{24^2 + (-7)^2} = 25$$

$$sinx = \frac{24}{25}$$

$$cosx = -\frac{7}{25}$$

$$sinx + 2cosx = \frac{24}{25} + 2(-\frac{7}{25})$$

$$= \frac{10}{25} = \frac{2}{5}$$

(2) (a)
$$\frac{\sin \angle ADB}{20} = \frac{\sin 28^{\circ}}{10}$$
$$sin \angle ADB = 2sin28^{\circ}$$
$$\angle ADB = 69.9^{\circ} \text{ or } 110.1^{\circ}$$
Since $\angle ADB$ is obtuse, therefore $\angle ADB = 110.1^{\circ}$ (b) $\angle BAC = 180^{\circ} - 28^{\circ} - 110.1^{\circ} = 41.9^{\circ}$
$$\frac{BC}{20} = sin41.9^{\circ}$$
$$BC = 13.4 \text{ cm}$$