MBF3C Date: _____

Primary Trigonometry Ratios – Angles Practice
SOLUTIONS

1. a) $20°$ b) $60°$ c) $25°$

   d) $72°$ e) $55°$ f) $15°$

2. a) $38.7°$ b) $36.7°$

   c) $57.0°$ d) $34.8°$

3. Find side x first:

$$\tan\theta = \frac{O}{A}$$
$$\tan 43 = \frac{x}{5}$$
$$y = 5\tan 43$$
$$= 4.7\,\text{m}$$

Then find angle:

$$\tan\theta = \frac{O}{A}$$
$$\tan\theta = \frac{4.7}{6}$$
$$\theta = \tan^{-1}\left(\frac{4.7}{6}\right)$$
$$= 38°$$

5. a) $\angle A = 22°$, $\angle B = 68°$ b) $\angle A = 61°$, $\angle B = 29°$

   c) $\angle A = 58°$, $\angle B = 32°$ d) $\angle A = 6°$, $\angle B = 84°$