

Trigonometry : 2

- 1) If $\sin A = +\frac{7}{25}$, A is obtuse $\cos B = -\frac{5}{13}$, B is reflex

work out without a calculator

- | | |
|----------------|--------------|
| a) $\sin(A+B)$ | d) $\sin 2A$ |
| b) $\cos(A+B)$ | e) $\cos 2A$ |
| c) $\tan(A-B)$ | |

- 2) Solve for $0^\circ \leq x \leq 360^\circ$

$$\sin 2x = \cos x$$

- 3) Solve for $0^\circ \leq \theta \leq 360^\circ$

$$3\sin 2\theta = 2\sin \theta$$

- 4) Solve for 0° to 360°

$$2\cos 2\theta = 9\cos \theta + 7$$

- 5) Solve for $0^\circ \leq x \leq 180^\circ$

$$\tan 2x = 4\tan x$$

- 6) Solve for $0^\circ \leq \theta \leq 360^\circ$

$$4\cos 2\theta = 1 - 2\sin \theta$$

- 7) Solve for $0^\circ \leq x \leq 360^\circ$

$$8\cos 2x + 6 = \cos^2 x + \cos x$$

- 8) Solve for 0° to 360°

$$2\sin \theta (5\cos 2\theta + 1) = 3\sin 2\theta$$

- 9) Solve for 0° to 360°

$$4\tan \theta \tan 2\theta = 1$$

- 10) Solve for 0° to 360°

$$3\cot 2\theta + \cot \theta = 1$$