5. Solve for x on the interval $0^{\circ} \le x \le 360^{\circ}$.

Round approximate solutions to the nearest

11. Solve for x on the interval $0^{\circ} \le x \le 360^{\circ}$.

a) $2\sin x \tan x - \tan x - 2\sin x + 1 = 0$

b) $\cos x \tan x - 1 + \tan x - \cos x = 0$

2. Solve each equation for $0 \le x \le 360^{\circ}$.

a)
$$\sin x + 1 = 0$$

b)
$$\sqrt{2}\cos x - 1 = 0$$

c)
$$2\sin x - \sqrt{3} = 0$$

d)
$$\sqrt{2}\cos x + 1 = 0$$

e)
$$2\sin x + 1 = 0$$

f)
$$\tan x = -1$$

3. Solve each equation for $0^{\circ} \le x \le 360^{\circ}$.

a)
$$2\cos^2 x - 7\cos x + 3 = 0$$

$$b) 3\sin x = 2\cos^2 x$$

c)
$$2\sin^2 x - 3\sin x - 2 = 0$$

d)
$$\sin^2 x - 1 = \cos^2 x$$

e)
$$\tan^2 x - 1 = 0$$

f)
$$2\sin^2 x + 3\sin x + 1 = 0$$

g)
$$2\cos^2 x + 3\sin x - 3 = 0$$

14. Solve each equation on the interval $0^{\circ} \le x \le 360^{\circ}$.

a)
$$\sin 2x = 1$$

b)
$$\cos 2x = -1$$

c)
$$2\sin 2x = 1$$

tenth of a degree.

a) $4\cos x - 3 = 0$

b) $1 + \sin x = 4\sin x$

c) $6\cos^2 x - \cos x - 1 = 0$

d) $9\sin^2 x - 6\sin x + 1 = 0$

f) $6\cos^2 x + \sin x - 4 = 0$

e) $16\cos^2 x - 4\cos x + 1 = 0$

d)
$$2\cos 2x = 1$$

b)
$$\cos 2x = -1$$

e) $\sqrt{2}\cos 2x = 1$

c)
$$2\sin 2x = 1$$

f) $2\sin 2x = \sqrt{3}$

g)
$$2\cos 2x = -\sqrt{3}$$
 h) $\sin 2x = 0$

h)
$$\sin 2x = 0$$

i)
$$2\sin 0.5x = 1$$

2. a)
$$270^{\circ}$$
 b) 45° , 315° c) 60° , 120° d) 135° , 225°

e) 210°, 330° f) 135°, 315° 3. a) 60°, 300° b) 30°, 150°

c) 210°, 330° d) 90°, 270° e) 45°, 135°, 225°, 315° f) 210°,

270°, 330° g) 30°, 90°, 150°

b) 19.5°, 160.5° c) 60°, 109.5°, 250.5°, 300° d) 19.5°, 160.5°

e) no solutions f) 41.8°, 138.2°, 210°, 330°

225° b) 45°, 180°, 225°

90°, 180°, 270°, 360° i) 60°, 300°