P. 478 #12-38 even

12. $\sqrt{17}$

14. $\frac{3}{4}$

16.
$$\cos^2 x + \tan^2 x \cos^2 x = 1$$
$$\cos^2 x + \frac{\sin^2 x}{\cos^2 x}\cos^2 x = 1$$
$$\cos^2 x + \sin^2 x = 1$$
$$1 = 1$$

18.
$$\frac{\sec q + 1}{\tan q} = \frac{\tan q}{\sec q - 1}$$
$$\frac{\sec q + 1}{\tan q} = \frac{\tan q(\sec q + 1)}{\sec^2 q - 1}$$
$$\frac{\sec q + 1}{\tan q} = \frac{\tan q(\sec q + 1)}{\tan^2 q}$$
$$\frac{\sec q + 1}{\tan q} = \frac{\sec q + 1}{\tan q}$$

20. $\frac{-\sqrt{6} - \sqrt{2}}{4}$

22. $\frac{\sqrt{6} + \sqrt{2}}{4}$

24. $\frac{48 + 7\sqrt{5}}{75}$

26. $\sqrt{\frac{2 - \sqrt{3}}{2}}$

28. $\sqrt{\frac{2 - \sqrt{2}}{2}}$

30. $\frac{24}{25}$

32. $-\frac{24}{7}$

34. 0°

36. 0°, 30°, 150°, 180°

38. p k, $\frac{2p}{3} + 2p$ k, $\frac{4p}{3} + 2p$ k