QUIZ – Finding Trigonometric Values and Solving Basic Trigonometric Equations

(1) Find the following Trig Values, exactly (you really need to work on getting quick at these)



$$\sin(7\pi/6) = \frac{-1/2}{2}$$

$$\sin(7\pi/6) = \frac{2}{\cos(5\pi/3)} = \frac{$$



$$\tan(7\pi/4) = \underline{\hspace{1cm}}$$

$$\tan(11\pi/6) =$$

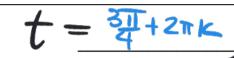
$$\cos(\pi$$

$$\cos(\pi) =$$

$$\cos(\pi) = \underline{\qquad} \sin(-2\pi/3) = \underline{\qquad}$$

(2) Solve the following equations for the given restriction on t. (If no restriction is given, find all solutions)

(a) Solve:
$$\cos(t) = \frac{-\sqrt{2}}{2}$$





(b) Solve:
$$\sin(t) = \frac{1}{2}$$
 for $0 \le t < 2\pi$

(c) Solve:
$$\tan(t) = \frac{\sqrt{3}}{3}$$
 for $0 \le t < 4\pi$





(d) Solve: $\sin(t) = -1$

(3). Mixed Problems: Find the value or Solve the equation $0 \le t < 2\pi$



(a).
$$\tan(5\pi/3)$$

(b).
$$\sin(t) = -\sqrt{3}/2$$

(c).
$$tan(\pi)$$

(d).
$$\cos(t) = 1$$









