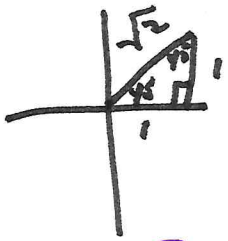Honors Algebra 2

Round Table Review 13.2 – Finding Sine, Cosine and Tangent for an angle.

USE YOUR OWN PAPER to do the following problems. Then pass this paper to someone else in your group.
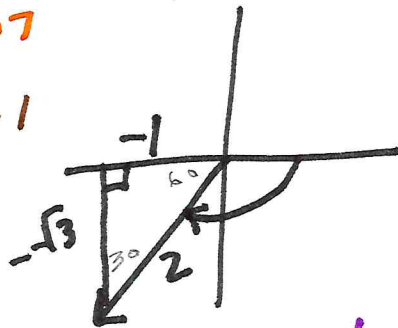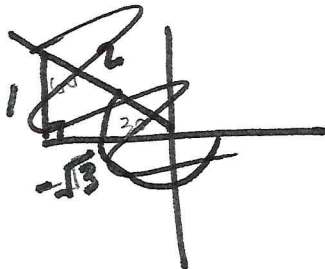
Find the exact values of the cos, sin and tan of each angle.   Draw the triangle (for #1, 2 and 3) and show all work including the ratios for each angle.
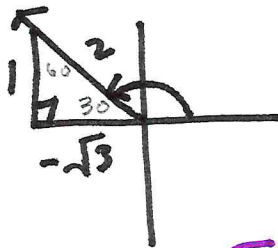
1. **45°**

$$\cos = \frac{\sqrt{2}}{2} = .707$$
$$\sin = \frac{\sqrt{2}}{2} = .707$$
$$\tan = \frac{.707}{.707} = 1$$

2. **−120°**

c

$$\cos = \frac{-1}{2} = -.5$$
$$\sin = -\frac{\sqrt{3}}{2} = -.87$$
$$\tan = \frac{-.87}{-.5}$$
$$= 1.7$$

3. **150°**

$$\cos = -\frac{\sqrt{3}}{2} = -.87$$
$$\sin = \frac{1}{2} = .5$$
$$\tan = \frac{.5}{-.87}$$
$$= -.57$$

4. **90°** $(0,1)$

$$\cos = 0$$
$$\sin = 1$$
$$\tan = \frac{1}{0}$$
undef.