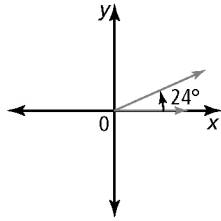
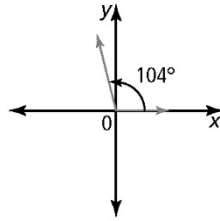


BLM 2-4 Section 2.1 Extra Practice

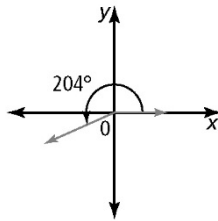
1. a) Example:



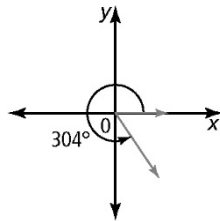
b) Example:



c) Example:



d) Example:



2. a) 55° b) 25° c) 75° d) 5°

3. a) $140^\circ, 220^\circ, 320^\circ$ b) $108^\circ, 252^\circ, 288^\circ$

c) $92^\circ, 268^\circ, 272^\circ$ d) $177^\circ, 183^\circ, 357^\circ$

4. a) 150° b) 225° c) 300°

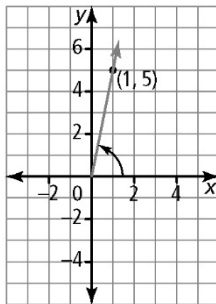
5. a) No b) No c) Yes d) No

6. a) $a = 10, b = 20\sqrt{3}$ b) $DE = 2\sqrt{3} \text{ m} - 2\sqrt{2} \text{ m}$

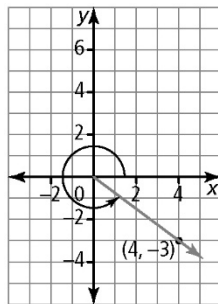
7. $12\sqrt{3} \text{ cm}$

BLM 2-5 Section 2.2 Extra Practice

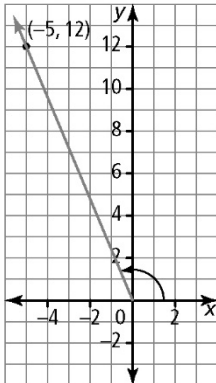
1. a)



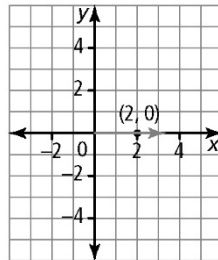
b)



c)



d)



2. a) $\sin \theta = \frac{5}{\sqrt{26}}$; $\cos \theta = \frac{1}{\sqrt{26}}$; $\tan \theta = 5$

b) $\sin \theta = \frac{-3}{5}$; $\cos \theta = \frac{4}{5}$; $\tan \theta = \frac{-3}{4}$

c) $\sin \theta = \frac{12}{13}$; $\cos \theta = \frac{-5}{13}$; $\tan \theta = \frac{12}{-5}$

d) $\sin \theta = 0$; $\cos \theta = 1$; $\tan \theta = 0$

3. a) $\sin \theta = \frac{1}{\sqrt{2}}$; $\cos \theta = \frac{-1}{\sqrt{2}}$; $\tan \theta = -1$

b) $\sin \theta = \frac{-\sqrt{3}}{2}$; $\cos \theta = \frac{-1}{2}$; $\tan \theta = \sqrt{3}$

c) $\sin \theta = \frac{-1}{2}$; $\cos \theta = \frac{\sqrt{3}}{2}$; $\tan \theta = \frac{-1}{\sqrt{3}}$

4. a) positive b) negative c) negative d) negative

5. a) $\cos \theta = \frac{-4}{5}$; $\tan \theta = \frac{3}{4}$

b) $\sin \theta = \frac{-\sqrt{5}}{3}$; $\tan \theta = \frac{-\sqrt{5}}{2}$

c) $\sin \theta = \frac{5}{13}$; $\cos \theta = \frac{-12}{13}$

6. a) $225^\circ, 315^\circ$ b) $30^\circ, 210^\circ$ c) $30^\circ, 330^\circ$ d) 270°

7. a) $51^\circ, 129^\circ$ b) $144^\circ, 216^\circ$ c) $138^\circ, 318^\circ$

d) $260^\circ, 280^\circ$

8. a) False. $\sin 120^\circ$ is in quadrant II so it is positive, and $\cos 210^\circ$ is in quadrant III so it is negative.

b) False. $\cos 170^\circ$ is in quadrant II so it is negative, and $\cos 350^\circ$ is in quadrant IV so it is positive.

c) True. The reference angle for both $\sin 200^\circ$ and $\sin 340^\circ$ is 20° . Both are negative.

d) True. The reference angles are not equal, but both ratios, $\cos 300^\circ$ and $\sin 150^\circ$ are equal to 0.5. Both are positive since the cosine ratio is positive in quadrant IV and the sine ratio is positive in quadrant II.