

Unit 3 Day 2 HW(2)

For questions 1 – 6, find the reference angle for the given angle.

1–6 ■ Find the reference angle for the given angle.

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|---------------------------|----------------------|-----------------------|
| 1. (a) 225° | (b) -35° | (c) 181° |
| 2. (a) 290° | (b) 750° | (c) 570° |
| 3. (a) 335° | (b) -95° | (c) 165° |
| 4. (a) $\frac{3\pi}{5}$ | (b) $\frac{7\pi}{6}$ | (c) $-\frac{2\pi}{3}$ |
| 5. (a) $\frac{17\pi}{3}$ | (b) $-\frac{\pi}{4}$ | (c) 3 |
| 6. (a) $\frac{23\pi}{11}$ | (b) $\frac{23}{11}$ | (c) $\frac{17\pi}{7}$ |

1. Let P be a point on the terminal side of θ . Draw a picture showing the reference angle and find the 6 trig functions of θ .

a) $P(12,9)$

b) $P(30,16)$

c) $P(1,2)$

d) $P(3, \sqrt{7})$

e) $P(-8, -6)$

f) $P(1, -3)$

g) $P(6, -\sqrt{13})$

h) $P(-\sqrt{2}, -\sqrt{2})$