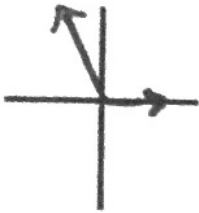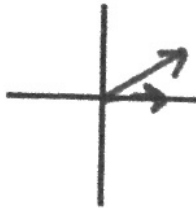## 7.3 Angles and Their Measures (Degrees)

Draw each angle in standard position.
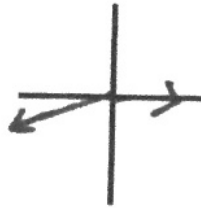
1. 120^0

2. -700^0

3. 550^0

4. -270^0

5. 1125°
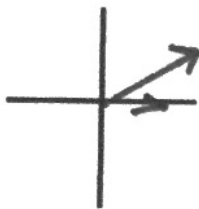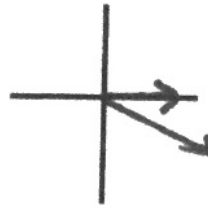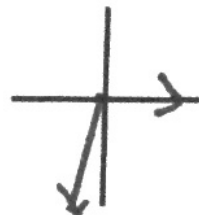

6. 40°

7. -400°

8. -100°
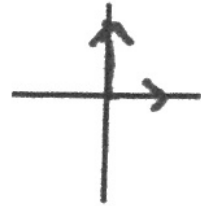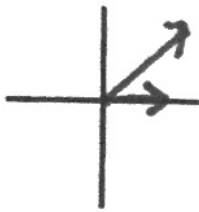
Find one positive and one negative coterminal angle that corresponds to the given angle.

9. 415°

55°

-305°

10. -160°

200°

-520°

11. -40°

320°

-400°

12. 55°

415°

-305°

$-13+49$

Find the complement and supplement of the given angle.

13. 85°

C: 5°

S: 95°

14. 93°

C: none

S: 87°

15. 40°

C: 50°

S: 140°

16. 57°

C: 33°

S: 123°

Convert each angle in degrees to radians.

$y = 56$

17. 18°

$18 \cdot \dfrac{\pi}{180} = \boxed{\dfrac{\pi}{10}}$

$)= 145$

18. 150°

$150 \cdot \dfrac{\pi}{180} = \boxed{\dfrac{5\pi}{6}}$

19. 330°

$330 \cdot \dfrac{\pi}{180} = \boxed{\dfrac{11\pi}{6}}$

20. -270°

$-270 \cdot \dfrac{\pi}{180} = \boxed{\dfrac{3\pi}{2}}$

Convert each angle in radians to degrees.

21. $\dfrac{\pi}{9}$

$\dfrac{\pi}{9} \cdot \dfrac{180}{\pi} = \boxed{20^o}$

22. $\dfrac{3\pi}{4}$

$\dfrac{3\pi}{4} \cdot \dfrac{180}{\pi} = \boxed{135^o}$

23. $\dfrac{11\pi}{6}$

$\dfrac{11\pi}{6} \cdot \dfrac{180}{\pi} = \boxed{330^o}$

24. $-\dfrac{25\pi}{18}$

$\dfrac{-25\pi}{18} \cdot \dfrac{180}{\pi} = \boxed{-250^o}$