

### 3.7 Even Answers

$$2. -\frac{3}{5}x^{-\frac{8}{5}}$$

$$4. \frac{1}{4}x^{-\frac{3}{4}}$$

$$6. -4(1-6x)^{-\frac{1}{3}}$$

$$8. (x^2+1)^{\frac{3}{2}}$$

$$10. \frac{6y-x^2}{y^2-6x}$$

$$18. \frac{dy}{dx} = \sec y$$

$$20. \frac{1-y}{x-\cos y}$$

$$26. -\frac{1}{(y+1)^3}$$

$$30. \text{(a) Tangent: } y = -(x+2) + 1$$

$$\text{(b) Normal: } y = (x+2) + 1$$

$$34. \text{(a) Tangent: } y = 2\left(x - \frac{\pi}{4}\right) + \frac{\pi}{2}$$

$$\text{(b) Normal: } y = -\frac{1}{2}\left(x - \frac{\pi}{4}\right) + \frac{\pi}{2}$$