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Thus, the differential equation is

$$x\frac{d^2x}{dt} + \left(\frac{dx}{dt}\right)^2 + 32x = 160.$$

20. The force is the weight of the chain, $2L$, so by Newton's second law, $\frac{d}{dt}[mv] = 2L$. Since the mass of the portion of chain off the ground is $m = 2(L - x)/g$, we have

$$\frac{d}{dt}\left[\frac{2(L-x)}{g}v\right] = 2L \qquad \text{or} \qquad (L-x)\frac{dv}{dt} + v\left(-\frac{dx}{dt}\right) = Lg.$$

Thus, the differential equation is

$$(L-x)\frac{d^2x}{dt^2} - \left(\frac{dx}{dt}\right)^2 = Lg.$$

21. From $g = k/R^2$ we find $k = gR^2$. Using $a = d^2r/dt^2$ and the fact that the positive direction is upward we get

$$\frac{d^2r}{dt^2} = -a = -\frac{k}{r^2} = -\frac{gR^2}{r^2} \qquad \text{or} \qquad \frac{d^2r}{dt^2} + \frac{gR^2}{r^2} = 0.$$

22. The gravitational force on m is $F = -kM_r m/r^2$. Since $M_r = 4\pi\delta r^3/3$ and $M = 4\pi\delta R^3/3$ we have $M_r = r^3M/R^3$ and

$$F = -k\frac{M_r m}{r^2} = -k\frac{r^3 Mm/R^3}{r^2} = -k\frac{mM}{R^3}r.$$

Now from $F = ma = d^2r/dt^2$ we have

$$m\frac{d^2r}{dt^2} = -k\frac{mM}{R^3}r \quad \text{or} \quad \frac{d^2r}{dt^2} = -\frac{kM}{R^3}r.$$

23. The differential equation is $\dfrac{dA}{dt} = k(M - A)$.

24. The differential equation is $\dfrac{dA}{dt} = k_1(M - A) - k_2A$.

25. The differential equation is $x'(t) = r - kx(t)$ where $k > 0$.

26. By the Pythagorean Theorem the slope of the tangent line is $y' = \dfrac{-y}{\sqrt{x^2 - y^2}}$.

27. We see from the figure that $2\theta + \alpha = \pi$. Thus

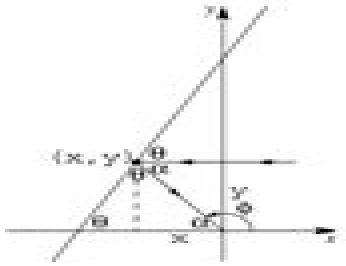
$$\frac{y}{-x} = \tan\alpha = \tan(\pi - 2\theta) = -\tan 2\theta = -\frac{2\tan\theta}{1 - \tan^2\theta}.$$

Since the slope of the tangent line is $y' = \tan\theta$ we have $y/x = 2y'[1 - (y')^2]$ or $y - y(y')^2 = 2xy'$, which is the quadratic equation $y(y')^2 + 2xy' - y = 0$ in y'. Using the quadratic formula we get

$$y' = \frac{-2x \pm \sqrt{4x^2 + 4y^2}}{2y} = \frac{-x \pm \sqrt{x^2 + y^2}}{y}.$$

Since $dy/dx > 0$, the differential equation is

$$\frac{dy}{dx} = \frac{-x + \sqrt{x^2 + y^2}}{y} \qquad \text{or} \qquad y\frac{dy}{dx} - \sqrt{x^2 + y^2} + x = 0.$$



28. The differential equation is $dP/dt = kP$, so from Problem 29 in Exercises 1.1, $P = e^{kt}$, and a one-parameter family of solutions is $P = ce^{kt}$.

Advanced Mathematical Engineering Manual

Erwin Kreyszig

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