

Answers to Basic Rules Review

1. 0	2. $\frac{4}{x^2}$
3. $6x - \frac{7}{x^2} + \frac{1}{x^3}$	4. $72x^2 + 144x + 54$
5. $2 \cos x + 3 \sin x$	6. $\frac{t^{-2}}{3} + 3t^{-\frac{2}{5}}$
7. $Y = \frac{1}{4}x + \frac{3}{4}$	8. $y = (1 + \sqrt{3})x$
9. Never	10. a) 20 b) 32
11. a) $3/\pi$ b) $\sqrt{3}/2$	12. a) $h(t) = -16t^2 + 30t + 120$ b) $v(t) = -32t + 30$ c) -34 d) -2, -66 e) 3.832 f) -92.624