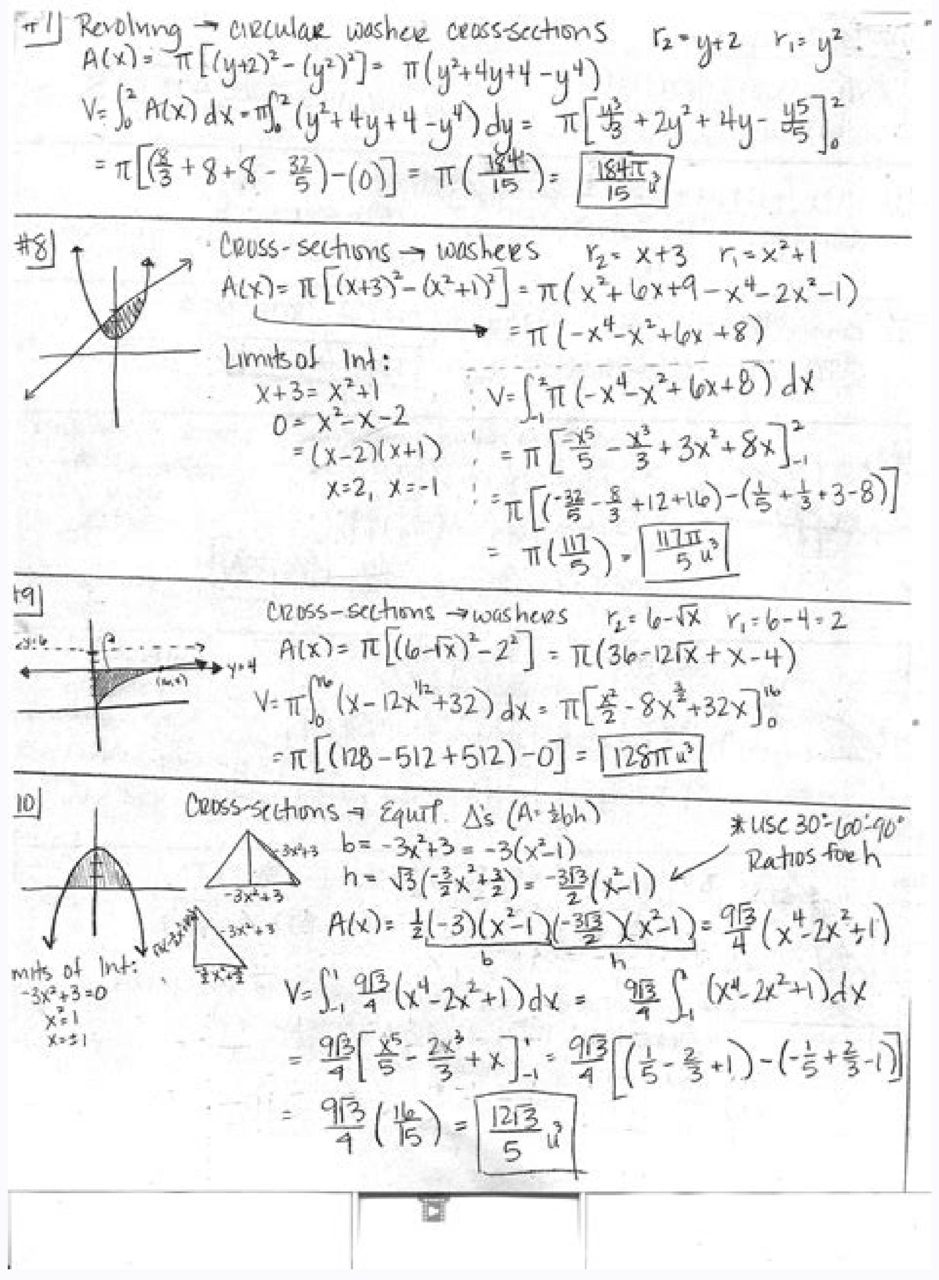
Calculus limits review questions and answers

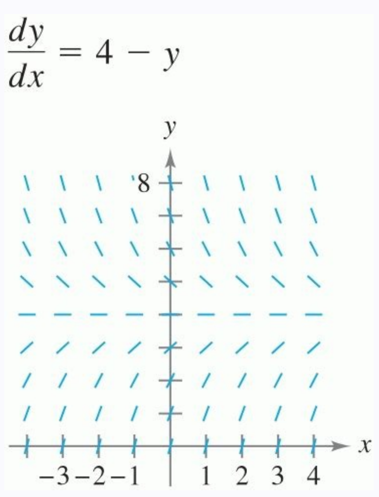
Practice

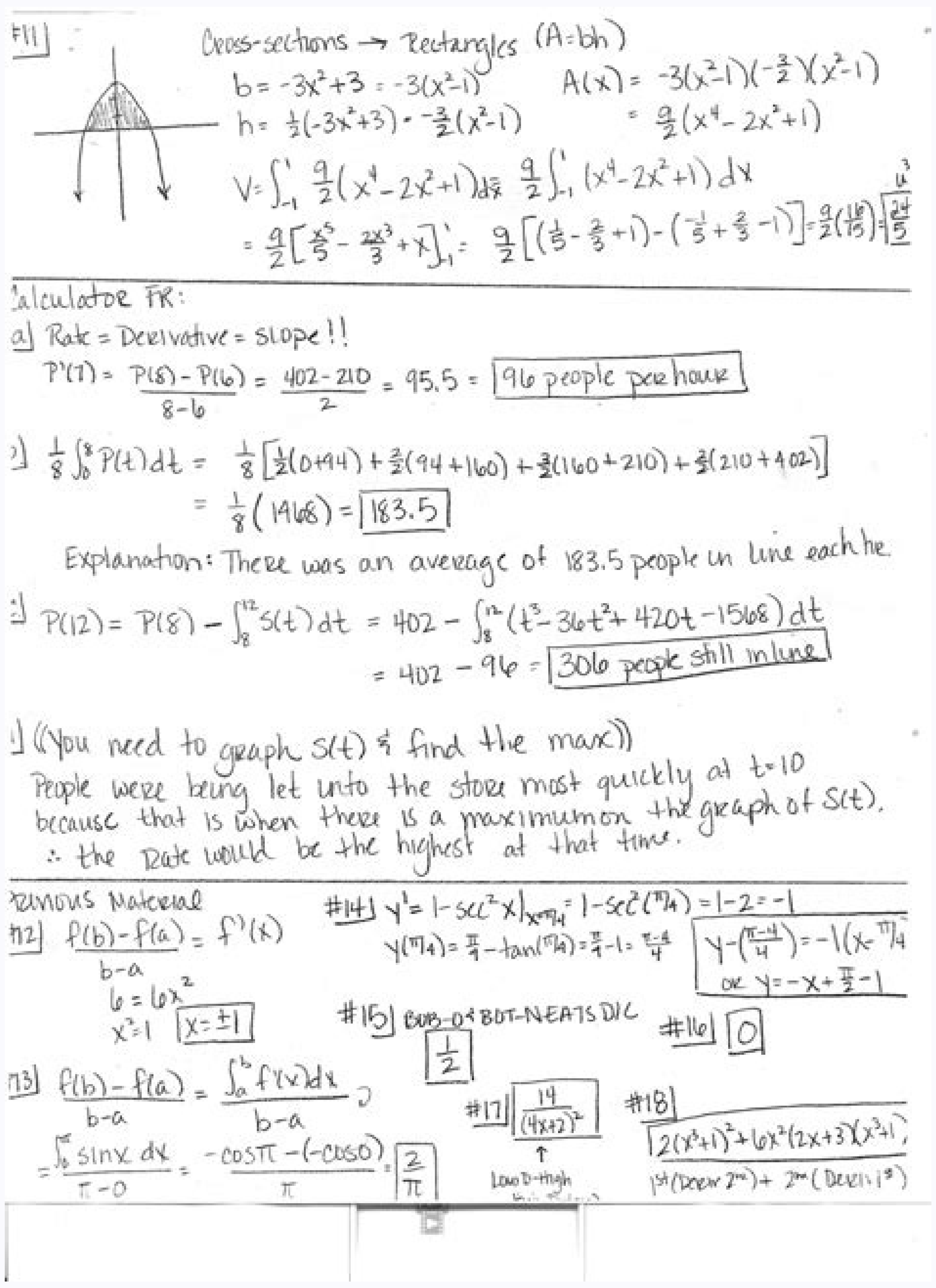
Add the polynomials.

1. $(4x^2 + 4x + 1) + (4x + 20)$

3. $(5x^3 - 6x + 10) + (x^3 + 10x - 9)$







23. $y = \sin^2(\cos kx)$

Solution : Given $y = \sin^2(\cos kx)$

Let $u = \cos kx \Rightarrow y = \sin^2 u$

$$\therefore \frac{du}{dx} = -k \sin kx \text{ and}$$

$$\frac{dy}{dx} = 2 \sin u . \frac{d}{du}(\sin u) = 2 \sin u \cos u$$

$$\text{Now } \frac{dy}{dx} = \frac{dy}{dx} \times \frac{du}{dx}$$

$$= 2 \sin u \cos u \times (-k \sin kx)$$

$$= -k \sin 2u \sin kx \qquad [\because u = \cos kx]$$

$$= -k \sin 2(\cos kx). \sin kx$$

$$= -k \sin kx . \sin 2(\cos kx)$$

24. $y = (1 + \cos^2 x)^6$

Solution : Given $y = (1 + \cos^2 x)^6$

Let $u = 1 + \cos^2 x \Rightarrow y = u^6$

$$\therefore \frac{du}{dx} = 2 \cos x (-\sin x)$$

$$= -2 \sin x \cos x = -\sin 2x$$

$$\frac{dy}{dx} = 6u^5$$

$$\text{Now } \frac{dy}{dx} = \frac{dy}{dx} \times \frac{du}{dx}$$

$$= 6u^5 (-\sin 2x)$$

$$= -6 (1 + \cos^2 x)^5 \sin 2x$$

$$= -6 \sin 2x (1 + \cos^2 x)^5$$

25. $y = \dfrac{e^{3x}}{1+e^x}$

Solution : Given $y = \dfrac{e^{3x}}{1+e^x}$

Using quotient rule,

$$\frac{dy}{dx} = \frac{\left(1+e^x\right).\frac{d}{dx}\left(e^{3x}\right) - e^{3x}.\frac{d}{dx}\left(1+e^x\right)}{\left(1+e^x\right)^2}$$

$$= \frac{\left(1+e^x\right).e^{3x}.3 - e^{3x}\left(0+e^x\right)}{\left(1+e^x\right)^2}$$

$$= \frac{3e^{3x} + 3e^{4x} - e^{4x}}{\left(1+e^x\right)^2} = \frac{3e^{3x} + 2e^{4x}}{\left(1+e^x\right)^2}$$

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