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Parcial Corto — Semana 13

1. $f''(x) = x^{100} + 7000$

$$f(x) = \frac{x^{100+1}}{100+1} + 7000 + C$$

$$F(x) = \frac{x^{101}}{101} + 1000 + 0x + C$$

2. $f(x) = 4x^8 + 10x + 2e^x$

$$F'(x) = \frac{4x^{8+1}}{8+1} + \frac{10x^{1+1}}{1+1} + 2e^x$$

$$F'(x) = \frac{4x^9}{9} + \frac{10x^2}{2} + 2e^x$$

$$F(x) = \frac{4x^9}{9} + 5x^2 + 2e^x + C$$

3. $f(x) = \dfrac{x^4 + 2x^2}{x^3}$

$$F(x) = \frac{x^4}{x^3} + \frac{2x}{x^3} + c$$

$$F(x) = x + \frac{2}{x} + c$$

$$F(x) = x + 2\ln x + c$$

$$\boxed{F(x) = x + 2\ln x + c}$$