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*Nombre del tema* Actividad

*Parcial* 4

*Nombre de la Materia* Matemática aplicada

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*Nombre de la Licenciatura* Enfermería

*Cuatrimestre* 6to semestre

$$1 \int_{-2}^2 x^2 - 4x - 5 \frac{d}{dx}$$

$$\int_{-2}^2 \frac{x^3}{3} 2x^2 - 5x + C$$

$$\frac{2^3}{3} - 2(2)^2 - \left[ \frac{-2^3}{3} - 2(-2)^2 \right]$$

$$\frac{8}{3} - 8 - \left[ -\frac{8}{3} - 8 \right]$$

$$\frac{8}{3} - \frac{24}{3} - \left[ \frac{-8}{3} - \frac{24}{3} \right]$$

$$\frac{16}{3} + \frac{32}{3} \rightarrow \frac{48}{3} \rightarrow \frac{16}{\cancel{3}}$$

$$2 \int_{-4}^5 -x + 2 \frac{d}{dx}$$

$$\int_{-4}^5 -x^2 + 2x + c$$

$$-(5) + 2(5) - [ -(-4)^2 + 2(-4) ]$$

$$-25 + 10 - [ -16 - 8 ]$$

$$-15 - [ -24 ]$$

$$-15 + 24 \rightarrow \underline{9}$$

$$3 \int_{-4}^0 + 8x + 12 \frac{d}{dx}$$

$$\int_{-4}^0 \frac{x^3}{3} + 4x^2 + 12x + c$$

$$- \left[ \frac{-4}{3} + 4(-4)^2 + 12(-4) \right]$$

$$- \left[ \frac{-64}{3} + 64 - 48 \right]$$

$$- \left[ \frac{-64}{3} + \frac{192}{3} - \frac{144}{3} \right]$$

$$\underline{\frac{16}{3}}$$

$$4 \int_{10}^3 6 \frac{d}{dx}$$

$$\int_3^{10} 6x + C$$

$$6(10) - [6(3)]$$

$$60 - 18 \rightarrow \underline{32}$$

$$5 \int_{\emptyset}^{10} \frac{8}{10} x \frac{d}{dx}$$

$$\int_{\emptyset}^{10} \frac{\frac{8x^2}{10}}{\frac{2}{1}} \rightarrow \frac{8x^2}{20}$$

$$\frac{8(10)^2}{20} \rightarrow \frac{8(100)}{20}$$

$$8(5) \rightarrow \underline{40}$$