Gabriel de Matos Ramos

1°) a) ;

🡪 bx + = ;

b) ; U = x; = senx 🡪 du = -cos(x) \* dx;

-x \* (-cos(x)) + ; 🡪 -x \* cos(x) + sen(x)

c) ; x = r \* sen(); dx = r\*cos();

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🡪 = ;

d) U = 2² - x²; 🡪

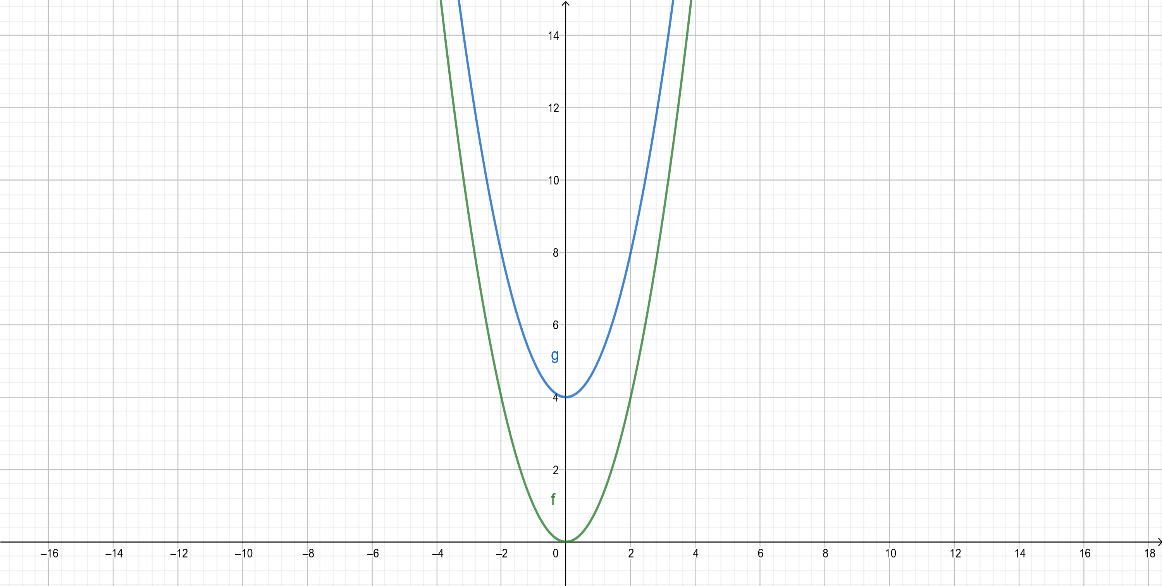
🡪 🡪 🡪 2\*;

2°)

a) y = x²; e y = x² + 4; x[1, 4];

y = 1² =1; y = 1² + 4 = 5;

y = 4² = 16; y = 4² + 4 =20;



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🡪 🡪 = 21;

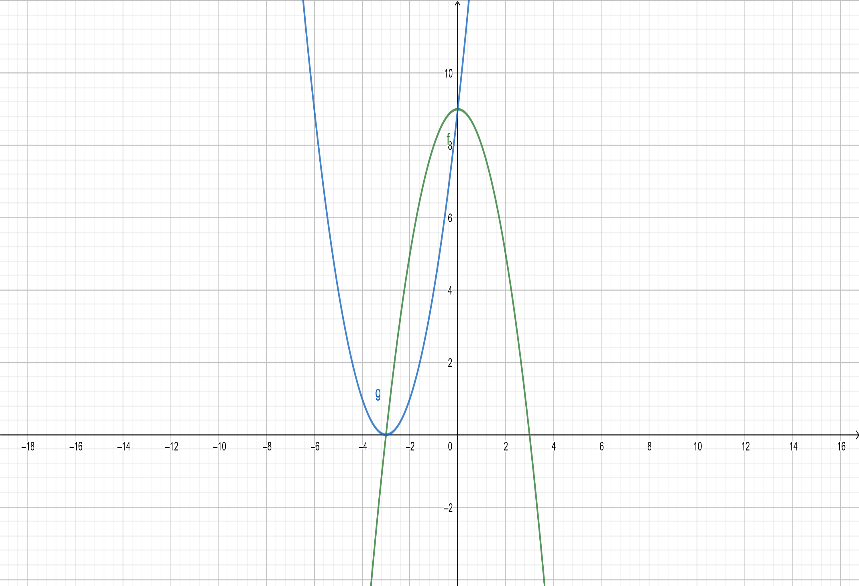
🡪 🡪 = 33;

21 - 33 = 12;

b) y = 9 – x²; y = (x + 3)²; x[1, 4];

y = 9 – 1² = 8; y = (1 + 3)² = 16;

y = 9 – 4² = -7; y = (4 + 3)² = 49;



🡪 9x 🡪

🡪 🡪 🡪 🡪 36 – 30 = 6;

🡪 🡪

🡪 🡪 9 + 84 = 93;

93 – 6 = -87;