

DROP & DRAG

Find the Laplace Transform for the following linearity functions using the table of Laplace Transforms.



$$F(s) = \frac{7}{s^2+49} + \frac{18}{s^2-36}$$

$$F(s) = \frac{-2}{s^2} + \frac{1}{s-6}$$



$$F(s) = \frac{20}{s} + \frac{s}{s^2-9} - \frac{8}{(s-2)^2+64}$$

$$F(s) = \frac{s}{s^2+4} + \frac{s^2-25}{(s^2+25)^2}$$

$$F(s) = \frac{9}{(s-1)^2} + \frac{12}{s^4} + \frac{4}{s+5}$$

$$F(s) = \frac{24}{s^5} + \frac{2}{(s-3)^3}$$

1. $f(t) = -2t + e^{6t}$

2. $f(t) = \sin 7t - 3\sinh 6t$

3. $f(t) = 20 + \cosh 3t - e^{2t} \sin 8t$

4. $f(t) = t^4 + t^2 e^{3t}$

5. $f(t) = \cos 2t + t \cos 5t$

6. $f(t) = 9te^t + 2t^3 + \frac{4}{e^{5t}}$