

DIRECTIONS To receive full credit, you must provide complete legible solutions to the following problems in the space provided. Be sure to supply all the details that support your solutions

Use Algebra and Theorems in Text to find the inverse Laplace transforms

1. $\ell^{-1} \left\{ \frac{4}{s^4} \right\} =$ Ans _____

2. $\ell^{-1} \left\{ \frac{2}{s} + \frac{4}{s^3} - \frac{1}{s+4} \right\} =$ Ans _____

3. Find $\ell^{-1} \left\{ \frac{(s+1)^2}{s^3} \right\}$ Ans _____

4. $\ell^{-1} \left\{ \frac{s+1}{s^2+1} \right\}$ Ans _____

5. Find $L^{-1} \left\{ \frac{s}{s^2+s-20} \right\}$ Ans _____

6. Solve $y' + 6y = e^{4t}$, $y(0) = 2$

Ans _____

DIRECTIONS To receive full credit, you must provide complete legible solutions to the following problems in the space provided. Be sure to supply all the details that support your solutions

Use Algebra and Theorems in Text to find the inverse Laplace transforms

1. $\ell^{-1} \left\{ \frac{4}{s^4} \right\} =$ Ans _____

2. Ans _____

3. Find Ans _____

4. Ans _____

5. Find Ans _____