

#### 20Z209 - ASHWIN KUMAR T G <20z209@psgtech.ac.in>

### CA1 -CO1 Quiz

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Mon, May 10, 2021 at 9:30 AM

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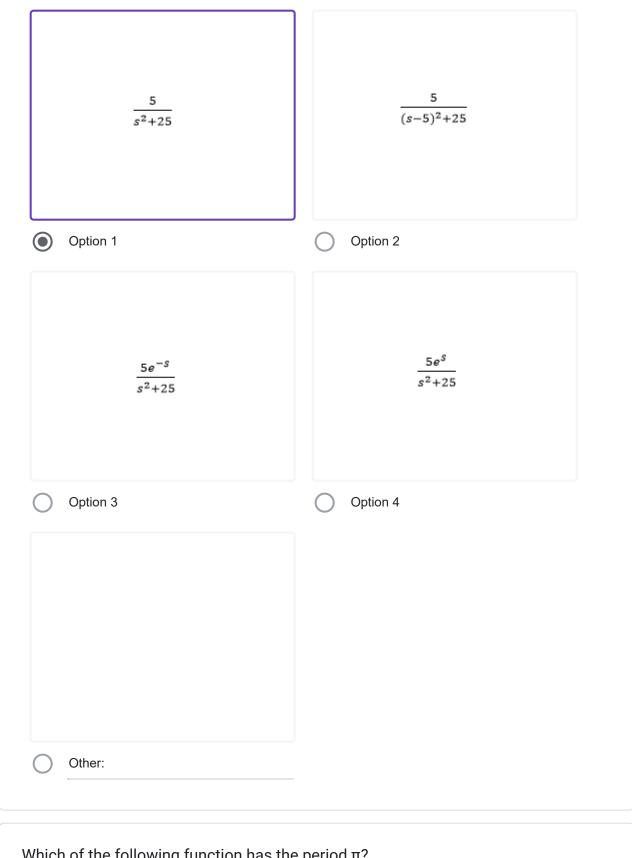
# CA1 -CO1 Quiz

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$$L\{e^{5t}\cos 4t\} =$$

$\frac{s-5}{(s-5)^2+16}$	$\frac{s-4}{(s-4)^2+25}$
Option 1	Option 2
$\frac{s-5}{(s-5)^2+25}$	$\frac{s-4}{(s-4)^2-25}$
Option 3	Option 4
Other:	

 $L \{ \sin 5t u (t) \} =$ 



Which of the following function has the period  $\pi$ ?

sin x

cos x

	sin x
$\bigcirc$	an x
0	Other:

## Match the following

(i)t <sup>5</sup> e <sup>6t</sup>	(a)Infinite discontinuities an Laplace transform does not exists	
(ii) tan <i>t</i>	(b)Continuous and not of exponential order	
(iii)e <sup>6t²</sup>	(c)Exponential order and Laplace transform exists	

(i)-(c)	;(	ii)-(b)	;(	iii)-(	(a
(.) (-)	٠,	, (,	٠,	,	١-

$$L\left\{ f^{\,\prime\prime\prime}(t)\right\} \,=\,$$

$s^3 L\{f(t)\} + s^2 f(0) + s f'(0) + f''(0)$	$s^3 L\{f(t)\} - s^2 f(0) - s f'(0) - f''(0)$
Option 1	Option 2
$s L{f(t)} - s^2f(0) - s^3 f'(0) - f''(0)$	$s^3 L\{f(t)\} - s^2 f''(0) - s f'(0) - f(0)$
Option 3	Option 4
Other:	

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