

3.15a)

FT_time_domain =

$$(5t)/12 - (15\exp(-4t))/16 + (25\exp(-6t))/36 + 35/144$$

3.15b)

FT_time_domain =

$$\exp(-2t)/4 - (\exp(-t)\cos(t))/2 + 1/4$$

3.15c)

FT_time_domain =

$$2t + (5\exp(-t))/4 + (3\exp(-5t))/20 - 7/5$$

3.15d)

FT_time_domain =

$$5\text{heaviside}(t - 2) * (\exp(2 - t) - \exp(1 - t/2) * (\cos((3^{1/2})(t - 2))/2) - (3^{1/2})\sin((3^{1/2})(t - 2))/2))/3)$$

3.15e)

FT_time_domain =

$$100 - (800 * 13^{1/2} * \exp(-(5t)/2) * \sinh((13^{1/2}t)/2))/13$$

3.15f)

FT_time_domain =

$$(12\cos(t))/25 - (112\exp(-t/2))/25 - (16\sin(t))/25 - (8t\exp(-t/2))/5 + 4$$

3.15g)

FT_time_domain =

$$(11\exp(-t) * (\cos(t) - (3\sin(t))/11))/5 - \sin(2t)/10 - \cos(2t)/5$$

3.15h)

FT_time_domain =

$$t - \exp(-t) + 5\exp(-2t) + 9t\exp(-t) - 2$$

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