3.1.
$$T_1(S) = \frac{S^2 + Q}{S^2 + SIZ + 1}$$
 $k = Q \rightarrow Q = 1$
 $Wop^2 = 1 \rightarrow wop = 1 \text{ rad/s}$
 $Wop^2 = 1 \rightarrow wop = 1 \text{ rad/s}$
 $Wop^2 = Q \rightarrow woz = 3 \text{ rod/s}$
 $woz^2 = Q \rightarrow woz = 3 \text{ rod/s}$
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 $woz = \sqrt{D} \quad wop \rightarrow 3 = \sqrt{D}$
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 $woz = \sqrt{D} \quad wop \rightarrow 3 = \sqrt{D}$
 $woz = Q \rightarrow 0 \rightarrow 0 \text{ rom } woz \neq 0 \text{ entrances}$
 $woz = \sqrt{D} \quad vop \rightarrow 0 \text{ rod } que Qz \rightarrow 0 \text{ rod } 0 \rightarrow 0$
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$$3.2 \quad 72(S) = \frac{S^2 + 1/Q}{S^2 + 015 + 1}$$

$$4bz^2 = \frac{1}{Q} \rightarrow 4bz = \frac{1}{3}$$

$$4bz^2 = 0 \rightarrow Qz \rightarrow 00$$

$$Qz$$

$$4bz^2 = 1 \rightarrow 4bz = 1$$

$$4bz$$

3.3
$$T3(3) = 3^2 + 315 + 1$$

$$8^2 + 3\sqrt{2} + 1$$

$$2 + 3\sqrt{2} + 1$$

$$3 + 3\sqrt{2} + 1$$

$$4 + 3\sqrt{2} + 1$$

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$$4 + 3\sqrt{2} + 1$$

$$5 + 3\sqrt{2} + 1$$

$$7 + 3\sqrt{2} + 1$$