

## Boolean Algebra Practice Problems:

Simplify each expression by algebraic manipulation.

$$1) a + 0 =$$

$$2) \bar{a} \cdot 0 =$$

$$3) a + \bar{a} =$$

$$4) a + a =$$

$$5) a + ab =$$

$$6) a + \bar{a}b =$$

$$7) a(\bar{a} + b) =$$

$$8) ab + \bar{a}b =$$

$$9) (\bar{a} + \bar{b})(\bar{a} + b) =$$

$$10) a(a + b + c + \dots) =$$

$$\text{For (11), (12), (13), } f(a, b, c) = a + b + c$$

$$11) f(a, b, ab) =$$

$$12) f(a, b, \bar{a} \cdot \bar{b}) =$$

$$13) f[a, b, \overline{(ab)}] =$$

$$14) y + y\bar{y} =$$

$$15) xy + x\bar{y} =$$

$$16) \bar{x} + y\bar{x} =$$

$$17) (w + \bar{x} + y + \bar{z})y =$$

$$18) (x + \bar{y})(x + y) =$$

$$19) w + [w + (wx)] =$$

$$20) x[x + (xy)] =$$

$$21) \overline{(\bar{x} + x)} =$$

$$22) \overline{(x + \bar{x})} =$$

$$23) w + (\overline{wxyz}) =$$

$$24) \bar{w} \cdot \overline{(wxyz)} =$$

$$25) xz + \bar{x}y + zy =$$

$$26) (x + z)(\bar{x} + y)(z + y) =$$

$$27) \bar{x} + \bar{y} + xy\bar{z} =$$

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**Annelies Wilder-Smith**



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