

1) $\text{GCD}(228, 44)$

$$a = b * c + d$$

$$b = 44$$

$$a = 228$$

$$228 = 44 * c + d$$

$$228 = 44 * 5 + 8$$

$$44 = 8 * 5 + 4$$

$$8 = 4 * 2 + \boxed{0}$$

2)

	A	B	R	T ₁	T ₂	T
1)	10	9	1	0	1	-2
2)	9	7	0	1	=2	8.7

inverse

-2

3) $\psi(3200)$

$$p^a q^b$$

$$(2^6 \times 5^2)$$

$$\phi n = n \left(1 - \frac{1}{p}\right) \left(1 - \frac{1}{q}\right)$$

$$3200 \left(1 - \frac{1}{2}\right) \left(1 - \frac{1}{5}\right)$$

$$3200 \left(\frac{1}{2}\right) \left(\frac{4}{5}\right)$$

$$\frac{3200}{2} = \frac{1600}{5}$$

$$= \frac{1600}{5}$$

$$= 320$$

$$320 \times 4 = \boxed{1280}$$

3