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KHA-LD9

الحساب الحرفي

النشر:



• المتطابقات الشهيرة للنشر

- $(a + b)^2 = (a)^2 + (b)^2 + 2(a)(b)$
- $(a - b)^2 = (a)^2 + (b)^2 - 2(a)(b)$
- $(a - b)(a + b) = (a)^2 - (b)^2$

• النشر عند وجود عامل مشترك

- $k(a + b) = (k \times a) + (k \times b)$
- $k(a - b) = (k \times a) - (k \times b)$
- $(a + b)(c + d) = a(c + d) + b(c + d)$
- $(a - b)(c + d) = a(c + d) - b(c + d)$
- $(a + b)(c - d) = a(c - d) + b(c - d)$
- $(a - b)(c - d) = a(c - d) - b(c - d)$

التحليل:



• المتطابقات الشهيرة للتحليل

- $(a)^2 + (b)^2 + 2(a)(b) = (a + b)^2$
- $(a)^2 + (b)^2 - 2(a)(b) = (a - b)^2$
- $(a)^2 - (b)^2 = (a - b)(a + b)$

• التحليل باستعمال العامل المشترك

- $ka + kb = k(a + b)$
- $(a + b)(c + d) + (a + b)(e + f) = (a + b)[(c + d) + (e + f)]$
- $(a + b)(c + d) - (a + b)(e + f) = (a + b)[(c + d) - (e + f)]$
- * $(a + b)(c + d) + (a + b) = (a + b)[(c + d) + 1]$
- * $(a + b)(c + d) - (a + b) = (a + b)[(c + d) - 1]$
- * $(a + b) + (a + b)(e + f) = (a + b)[1 + (e + f)]$
- * $(a + b) - (a + b)(e + f) = (a + b)[1 - (e + f)]$